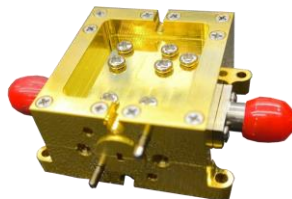


Model: TMIQ-210230-0220-04
G-Band IQ-subharmonic mixer
RF:210-230 GHz ,LO:105-115GHz,IF:DC-20GHz,
Feature:

- RF Frequency:210-230GHz
- Compact Package
- Low Conversion Loss

Applications:

- Point-to-point communication
- Instrumentation



TMIQ-210230-0220-04 is a subharmonic IQ mixer in the 210-230 GHz frequency band suitable for G-band point-to-point communication, instrumentation, sensing, security and high resolution imaging applications. The mixer has high image rejection, low input/output return loss and flat conversion response

Electrical Specifications:

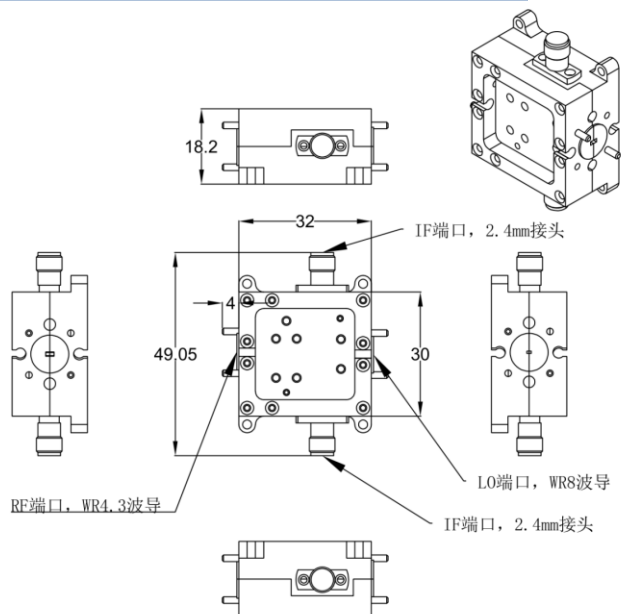
Parameter	Min.	Typ.	Max.	Units
RF Frequency	210		230	GHz
LO Frequency	105		115	GHz
IF Frequency	DC		20	GHz
LO-Input power	+9	+10	+12	dBm
Conversion Loss	11	12	15	dB
I/Q Phase Unbalance		3		°
I/Q Amplitude Unbalance		0.5		dB
RF return loss		-12		dB
LO return loss		-10		dB
IF return loss		-10		dB

Mechanical Specifications:

Parameter	Value	Units
RF Connector	WR-4.3/UG-387	
LO Connector	WR-10/UG-387	
IF Connector	2.4mm Female	
Size	32*30*19	mm
Weight	110	g
Material	Cu	

Mechanical Outline:

Unit: mm



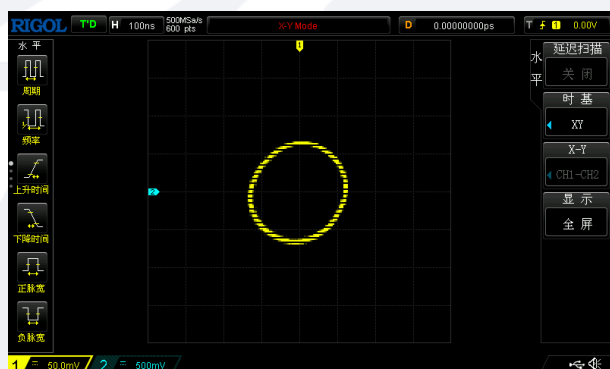
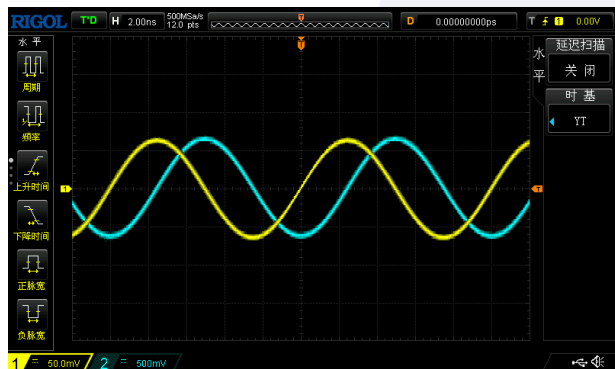
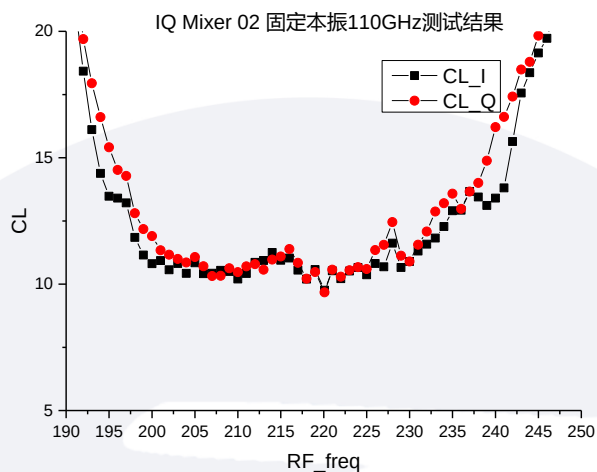
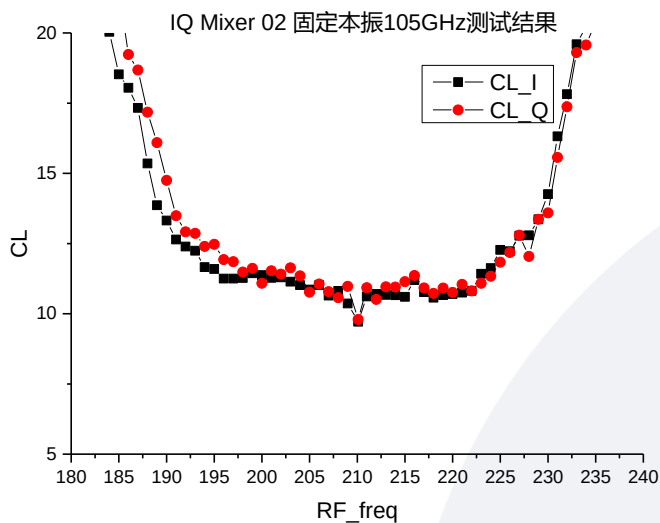
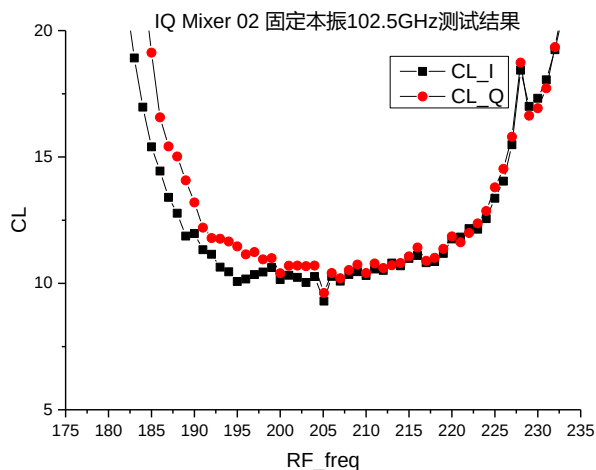
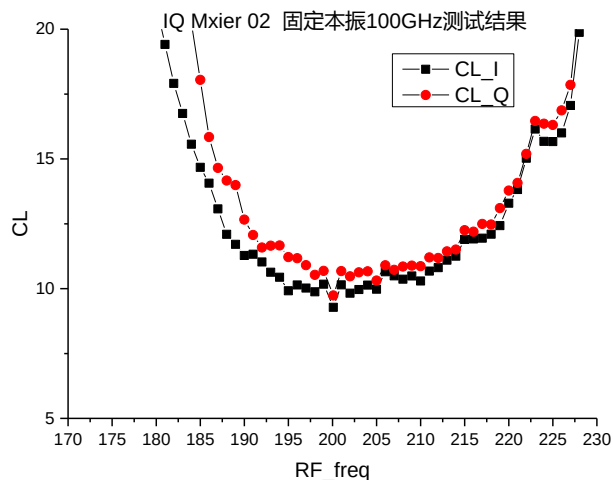
OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-25		+65	°C
Non-operating Temperature	-65		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TMIQ-210230-0220-04	G-Band IQ-subharmonic mixer RF:210-230 GHz ,LO:105-115GHz,IF:DC-20GHz,	Rev.1.1



不平衡度Y-T模式测试结果, RF_freq=200.1GHz,
LO_freq=200GHz